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JP10014857A2: MALIGNANT STRUCTURE DIAGNOSING METHOD AND DEVICE USING FLUORESCENT OBSERVATION

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Country: **JP** Japan

Kind:

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Abstract: **Problem to be solved:** To provide a diagnosing method and device with which the ability of distinguishing the changed cellular or structural pattern in comparison with a healthy structure can be improved by a fluorescent testing process and which allows observing with white light a normal photo-image of a test structure.
Solution: A stroboscope 3 is used as a white light source to illuminate a structure region to be inspected through an endoscope, and fluorescence is excited using a laser device 4 simultaneously. At the same time, an analyzer 5 is activated in the dark phase between two photo-flashes of the stroboscope and is left out of activation with a visible ray flash. It may also be accepted that a structure exhibiting a continuous fluorescent excitation when it is exposed to a light having excitation wavelengths is observed under a pseudo-white light. Further it is accepted that the obtained spectrogram is displayed on a screen showing a normal white light endoscopic image.
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